CONFIDENTIAL

SEQUENCE LISTING

<110>	Gwyn	inder, Linda n, Jefferson uckeleer, Ma	n				
<120>	Herl	bicide Tole:	rant Cotton	Plants			
<130>	EE-0	GH1					
<160>	18						
<170>	Pate	entIn versio	on 3.0				
<210> <211> <212> <213>		ificial: sec	quence compi	rising 5' fl	lanking reg	ion	
<400>		agattgaatg	ttaccttatc	227222772	attataacta	atagaacaac	60
	-	tccacqqaaa					120
_		aagttgcaac		-			180
-		gtgcttgatc	_	_	_	_	240
		tctaacaagt				_	300
		_				-	
		gggtctaata	-				360
		ctctgcctta					420
		aggttcttca					480
ttctca	ttga	agccaaaatt	tcatgaaact	tctcacattg	gcctctaaac	ttcttcaaga	540
tagcct	ttgc	accatctagc	tcactcttgg	ttgttttcaa	aacatcatcc	gtttcttgga	600
ccacaa	tttt	gagcttttca	ttttctattt	tgaggataat	agtttattcc	ctcaaggaac	660
tattca	actg	agcttaacag	tactcggccg	tcgaccgcgg	tacccggaat	tccaatccca	720
caaaaa	tctg	agcttaacag	cacagttgct	cctctcagag	cagaatcggg	tattcaacac	780
cctcat	atca	actactacgt	tgtgtataac	ggtccacatg	ccggtatata	cgatgactgg	840
ggttgt	acaa						850
<210> <211> <212> <213>		ificial: pri	mer GHI06				
<400> ttgcac		tagctcactc					20



<210> 3 <211> 21 <212> DNA <213> Art	ificial: pr	imer GHI05				
<400> 3 ggaccgttat	acacaacgta	g				21
<210> 4 <211> 426 <212> DNA <213> Art		quence comp	rising 3' f	lanking reg	ion	
<400> 4						60
	ccgcaattat					60
	ttatcgcgcg					120
	aggcatgcaa	_				180
caaatattta	aaaagaatat	caccattatc	cgaatcttct	ttaaaatctg	ttagaacacg	240
gtttggaata	gtggtagtaa	aagtaacata	gttgctcgca	tcttgatcta	cattaaactt	300
tcttcatcac	tccaagtgat	tgtaaatgac	ttctatttct	tcttagtatt	agcacattct	360
aattttaagt	gaaacaatcc	cttacattca	taacattgaa	tatccttcta	tcatctcaca	420
						426
gcacga						120
<210> 5 <211> 961 <212> DNA	ificial: sed	quence compi	rising inse	rtion region	ı	2.50
<210> 5 <211> 961 <212> DNA <213> Art <400> 5	íficial: seo	-	-	-		
<210> 5 <211> 961 <212> DNA <213> Art <400> 5 aaaggggatg	ificial: sed	ttaccttatc	aacaaaagga	gttgtagctc	atggaacaac	60
<210> 5 <211> 961 <212> DNA <213> Art <400> 5 aaagggatg aatagtcttt	ificial: sec agattgaatg tccacggaaa	ttaccttatc	aacaaaagga gtttctccaa	gttgtagctc tgcttgataa	atggaacaac atctttaaca	60 120
<210> 5 <211> 961 <212> DNA <213> Art <400> 5 aaagggatg aatagtcttt	ificial: sed	ttaccttatc	aacaaaagga gtttctccaa	gttgtagctc tgcttgataa	atggaacaac atctttaaca	60
<210> 5 <211> 961 <212> DNA <213> Art <400> 5 aaagggatg aatagtcttt ttgtcatcat	ificial: sec agattgaatg tccacggaaa	ttaccttatc cctagatgat ctcatgtttc	aacaaaagga gtttctccaa acacaagcat	gttgtagctc tgcttgataa caatcaaatg	atggaacaac atctttaaca ttgatcttca	60 120
<210> 5 <211> 961 <212> DNA <213> Art <400> 5 aaaggggatg aatagtcttt ttgtcatcat ttactaaaat	agattgaatg tccacggaaa aagttgcaac	ttaccttatc cctagatgat ctcatgtttc cttccttaca	aacaaaagga gtttctccaa acacaagcat caaatctacc	gttgtagctc tgcttgataa caatcaaatg tatgttgtgg	atggaacaac atctttaaca ttgatcttca tattttgttc	60 120 180
<210> 5 <211> 961 <212> DNA <213> Art <400> 5 aaagggatg aatagtcttt ttgtcatcat ttactaaaat tattcatcat	agattgaatg tccacggaaa aagttgcaac gtgcttgatc	ttaccttatc cctagatgat ctcatgtttc cttccttaca tttgcaattg	aacaaaagga gtttctccaa acacaagcat caaatctacc agttgaactt	gttgtagctc tgcttgataa caatcaaatg tatgttgtgg cttccaatct	atggaacaac atctttaaca ttgatcttca tattttgttc cgtatcagcc	60 120 180 240
<210> 5 <211> 961 <212> DNA <213> Art <400> 5 aaagggatg aatagtcttt ttgtcatcat ttactaaaat tattcatcat tattactat tattattattattattattattattattattattat	agattgaatg tccacggaaa aagttgcaac gtgcttgatc tctaacaagt	ttaccttatc cctagatgat ctcatgtttc cttccttaca tttgcaattg tgtccatttt	aacaaaagga gtttctccaa acacaagcat caaatctacc agttgaactt tcccacaata	gttgtagctc tgcttgataa caatcaaatg tatgttgtgg cttccaatct atgacatata	atggaacaac atctttaaca ttgatcttca tattttgttc cgtatcagcc atctttctaa	60 120 180 240 300
<210> 5 <211> 961 <212> DNA <213> Art <400> 5 aaaggggatg aatagtcttt ttgtcatcat ttactaaaat tattcatcat tattactat tataatagtg agcttttatt	agattgaatg tccacggaaa aagttgcaac gtgcttgatc tctaacaagt gggtctaata	ttaccttatc cctagatgat ctcatgttc cttccttaca tttgcaattg tgtccatttt tgatgaaaag	aacaaaagga gtttctccaa acacaagcat caaatctacc agttgaactt tcccacaata aacccaaatc	gttgtagctc tgcttgataa caatcaaatg tatgttgtgg cttccaatct atgacatata tttaacttta	atggaacaac atctttaaca ttgatcttca tattttgttc cgtatcagcc atctttctaa acaaaaataa	60 120 180 240 300 360
<210> 5 <211> 961 <212> DNA <213> Art <400> 5 aaagggatg aatagtcttt ttgtcatcat ttactaaaat tattcatcat tattactat tattattat tattattat gatgagcgat	agattgaatg tccacggaaa aagttgcaac gtgcttgatc tctaacaagt gggtctaata ctctgcctta	ttaccttatc cctagatgat ctcatgttc cttccttaca tttgcaattg tgtccatttt tgatgaaaag cctttattga	aacaaaagga gtttctccaa acacaagcat caaatctacc agttgaactt tcccacaata aacccaaatc tgtaaccaag	gttgtagctc tgcttgataa caatcaaatg tatgttgtgg cttccaatct atgacatata tttaacttta tcctctatgg	atggaacaac atctttaaca ttgatcttca tattttgttc cgtatcagcc atctttctaa acaaaaataa catggttcaa	60 120 180 240 300 360 420
<210> 5 <211> 961 <212> DNA <213> Art <400> 5 aaaggggatg aatagtcttt ttgtcatcat ttactaaaat tattcatcat tattactat tattattat tattattat tattattat tattat	agattgaatg tccacggaaa aagttgcaac gtgcttgatc tctaacaagt gggtctaata ctctgcctta aggttcttca	ttaccttatc cctagatgat ctcatgttc cttccttaca tttgcaattg tgtccatttt tgatgaaaag cctttattga tcatgaaact	aacaaaagga gtttctccaa acacaagcat caaatctacc agttgaactt tcccacaata aacccaaatc tgtaaccaag	gttgtagctc tgcttgataa caatcaaatg tatgttgtgg cttccaatct atgacatata tttaacttta tcctctatgg gcctctaaac	atggaacaac atctttaaca ttgatcttca tattttgttc cgtatcagcc atctttctaa acaaaaataa catggttcaa ttcttcaaga	60 120 180 240 300 360 420 480
<210> 5 <211> 961 <212> DNA <213> Art <400> 5 aaagggatg aatagtcttt ttgtcatcat ttactaaaat tattcatcat tatactat tattattat tattattat tattattat tattat	agattgaatg tccacggaaa aagttgcaac gtgcttgatc tctaacaagt gggtctaata ctctgcctta aggttcttca agccaaaatt	ttaccttatc cctagatgat ctcatgttc cttccttaca tttgcaattg tgtccatttt tgatgaaaag cctttattga tcatgaaact tcactcttgg	aacaaaagga gtttctccaa acacaagcat caaatctacc agttgaactt tcccacaata aacccaaatc tgtaaccaag tctcacattg ttgtttcaa	gttgtagctc tgcttgataa caatcaaatg tatgttgtgg cttccaatct atgacatata tttaacttta tcctctatgg gcctctaaac aacatcatcc	atggaacaac atctttaaca ttgatcttca tattttgttc cgtatcagcc atctttctaa acaaaaataa catggttcaa ttcttcaaga gtttcttgga	60 120 180 240 300 360 420 480 540

CONFIDENTIAL

atttaaaaag	aatatcacca	ttatccgaat	cttctttaaa	atctgttaga	acacggtttg	780
gaatagtggt	agtaaaagta	acatagttgc	togcatcttg	atctacatta	aactttcttc	840
atcactccaa	gtgattgtaa	atgacttcta	tttcttctta	gtattagcac	attctaattt	900
taagtgaaac	aatcccttac	attcataaca	ttgaatatcc	ttctatcatc	tcacagcacg	960
a						961
<210> 6 <211> 9555 <212> DNA <213> Arti <400> 6	o ificial: pla	asmid pGSV71	L			
	ctcggtcccg	tgggtgttct	gtcgtctcgt	tgtacaacga	aatccattcc	60
cattccgcgc	tcaagatggc	ttcccctcgg	cagttcatca	gggctaaatc	aatctagccg	120
acttgtccgg	tgaaatgggc	tgcactccaa	cagaaacaat	caaacaaaca	tacacagcga	180
cttattcaca	cgcgacaaat	tacaacggta	tatatcctgc	cagtactcgg	ccgtcgaccg	240
cggtacccgg	aattccaatc	ccacaaaaat	ctgagcttaa	cagcacagtt	gctcctctca	300
gagcagaatc	gggtattcaa	caccctcata	tcaactacta	cgttgtgtat	aacggtccac	360
atgccggtat	atacgatgac	tggggttgta	caaaggcggc	aacaaacggc	gttcccggag	420
ttgcacacaa	gaaatttgcc	actattacag	aggcaagagc	agcagctgac	gcgtacacaa	480
caagtcagca	aacagacagg	ttgaacttca	tccccaaagg	agaagctcaa	ctcaagccca	540
agagctttgc	taaggcccta	acaagcccac	caaagcaaaa	agcccactgg	ctcacgctag	600
gaaccaaaag	gcccagcagt	gatecageee	caaaagagat	ctcctttgcc	ccggagatta	660
caatggacga	tttcctctat	ctttacgatc	taggaaggaa	gttcgaaggt	gaaggtgacg	720
acactatgtt	caccactgat	aatgagaagg	ttagcctctt	caatttcaga	aagaatgctg	780
acccacagat	ggttagagag	gcctacgcag	caggtctcat	caagacgatc	tacccgagta	840
acaatctcca	ggagatcaaa	taccttccca	agaaggttaa	agatgcagtc	aaaagattca	900
ggactaattg	catcaagaac	acagagaaag	acatatttct	caagatcaga	agtactattc	960
cagtatggac	gattcaaggc	ttgcttcata	aaccaaggca	agtaatagag	attggagtct	1020
ctaaaaaggt	agttcctact	gaatctaagg	ccatgcatgg	agtctaagat	tcaaatcgag	1080
gatctaacag	aactcgccgt	gaagactggc	gaacagttca	tacagagtct	tttacgactc	1140
aatgacaaga	agaaaatctt	cgtcaacatg	gtggagcacg	acactctggt	ctactccaaa	1200
aatgtcaaag	atacagtctc	agaagaccaa	agggctattg	agacttttca	acaaaggata	1260
				~+ ~ ~ ~ + ~ ~ +		1220

atttcgggaa acctcctcgg attccattgc ccagctatct gtcacttcat cgaaaggaca

DO NOT COT.

gtagaaaagg	aaggtggctc	ctacaaatgc	catcattgcg	ataaaggaaa	ggctatcatt	1380
caagatgcct	ctgccgacag	tggtcccaaa	gatggacccc	cacccacgag	gagcatcgtg	1440
gaaaaagaag	acgttccaac	cacgtcttca	aagcaagtgg	attgatgtga	catctccact	1500
gacgtaaggg	atgacgcaca	atcccactat	ccttcgcaag	accetteete	tatataagga	1560
agttcatttc	atttggagag	gacacgctga	aatcaccagt	ctctctctat	aaatctatct	1620
ctctctctat	aaccatggac	ccagaacgac	gcccggccga	catccgccgt	gccaccgagg	1680
cggacatgcc	ggcggtctgc	accatcgtca	accactacat	cgagacaagc	acggtcaact	1740
tccgtaccga	gccgcaggaa	ccgcaggagt	ggacggacga	cctcgtccgt	ctgcgggagc	1800
gctatccctg	gctcgtcgcc	gaggtggacg	gcgaggtcgc	cggcatcgcc	tacgcgggcc	1860
cctggaaggc	acgcaacgcc	tacgactgga	cggccgagtc	gaccgtgtac	gtctccccc	1920
gccaccagcg	gacgggactg	ggctccacgc	tctacaccca	cctgctgaag	tccctggagg	1980
cacagggctt	caagagcgtg	gtcgctgtca	tegggetgee	caacgacccg	agcgtgcgca	2040
tgcacgaggc	gctcggatat	gccccccgcg	gcatgctgcg	ggcggccggc	ttcaagcacg	2100
ggaactggca	tgacgtgggt	ttctggcagc	tggacttcag	cctgccggta	ccgccccgtc	2160
cggtcctgcc	cgtcaccgag	atctgagatc	acgcgttcta	ggatccgaag	cagatcgttc	2220
aaacatttgg	caataaagtt	tcttaagatt	gaatcctgtt	gccggtcttg	cgatgattat	2280
catataattt	ctgttgaatt	acgttaagca	tgtaataatt	aacatgtaat	gcatgacgtt	2340
atttatgaga	tgggttttta	tgattagagt	cccgcaatta	tacatttaat	acgcgataga	2400
aaacaaaata	tagcgcgcaa	actaggataa	attatcgcgc	gcggtgtcat	ctatgttact	2460
agatcgggaa	gatcctctag	agtcgacctg	caggcatgca	agcttagatc	catggagcca	2520
tttacaattg	aatatatcct	gccgccgctg	ccgctttgca	cccggtggag	cttgcatgtt	2580
ggtttctacg	cagaactgag	ccggttaggc	agataatttc	cattgagaac	tgagccatgt	2640
gcaccttccc	cccaacacgg	tgagcgacgg	ggcaacggag	tgatccacat	gggactttta	2700
aacatcatcc	gtcggatggc	gttgcgagag	aagcagtcga	tccgtgagat	cagccgacgc	2760
accgggcagg	cgcgcaacac	gatcgcaaag	tatttgaacg	caggtacaat	cgagccgacg	2820
ttcacggtac	cggaacgacc	aagcaagcta	gcttagtaaa	gccctcgcta	gattttaatg	2880
cggatgttgc	gattacttcg	ccaactattg	cgataacaag	aaaaagccag	cctttcatga	2940
tatatetece	aatttgtgta	gggcttatta	tgcacgctta	aaaataataa	aagcagactt	3000
gacctgatag	tttggctgtg	agcaattatg	tgcttagtgc	atctaacgct	tgagttaagc	3060
cgcgccgcga	agcggcgtcg	gcttgaacga	attgttagac	attatttgcc	gactaccttg	3120

gtgatctcgc	ctttcacgta	gtggacaaat	tcttccaact	gatctgcgcg	cgaggccaag	3180
cgatcttctt	cttgtccaag	ataagcctgt	ctagettcaa	gtatgacggg	ctgatactgg	3240
gccggcaggc	gctccattgc	ccagtcggca	gcgacatcct	tcggcgcgat	tttgccggtt	3300
actgcgctgt	accaaatgcg	ggacaacgta	agcactacat	ttcgctcatc	gccagcccag	3360
tegggeggeg	agttccatag	cgttaaggtt	tcatttagcg	cctcaaatag	atcctgttca	3420
ggaaccggat	caaagagttc	ctccgccgct	ggacctacca	aggcaacgct	atgttctctt	3480
gcttttgtca	gcaagatagc	cagatcaatg	tcgatcgtgg	ctggctcgaa	gatacctgca	3540
agaatgtcat	tgcgctgcca	ttctccaaat	tgcagttcgc	gcttagctgg	ataacgccac	3600
ggaatgatgt	cgtcgtgcac	aacaatggtg	acttctacag	cgcggagaat	ctcgctctct	3660
ccaggggaag	ccgaagtttc	caaaaggtcg	ttgatcaaag	ctcgccgcgt	tgtttcatca	3720
agccttacgg	tcaccgtaac	cagcaaatca	atatcactgt	gtggcttcag	gccgccatcc	3780
actgcggagc	cgtacaaatg	tacggccagc	aacgtcggtt	cgagatggcg	ctcgatgacg	3840
ccaactacct	ctgatagttg	agtcgatact	tcggcgatca	ccgcttccct	catgatgttt	3900
aactttgttt	tagggcgact	gccctgctgc	gtaacatcgt	tgctgctcca	taacatcaaa	3960
catcgaccca	cggcgtaacg	cgcttgctgc	ttggatgccc	gaggcataga	ctgtacccca	4020
aaaaaacagt	cataacaagc	catgaaaacc	gccactgcgc	cgttaccacc	gctgcgttcg	4080
gtcaaggttc	tggaccagtt	gcgtgagcgc	atacgctact	tgcattacag	cttacgaacc	4140
gaacaggctt	atgtccactg	ggttcgtgcc	ttcatccgtt	tccacggtgt	gcgtcacccg	4200
gcaaccttgg	gcagcagcga	agtcgaggca	tttctgtcct	ggctggcgaa	cgagcgcaag	4260
gtttcggtct	ccacgcatcg	tcaggcattg	gcggccttgc	tgttcttcta	cggcaagtgc	4320
tgtgcacgga	tctgccctgg	cttcaggaga	tcggaagacc	teggeegtee	gggcgcttgc	4380
cggtggtgct	gaccccggat	gaagtggttc	gcatcctcgg	ttttctggaa	ggcgagcatc	4440
gtttgttcgc	ccagcttctg	tatggaacgg	gcatgcggat	cagtgagggt	ttgcaactgc	4500
gggtcaagga	tctggatttc	gatcacggca	cgatcatcgt	gcgggagggc	aagggctcca	4560
aggatcgggc	cttgatgtta	cccgagaget	tggcacccag	cctgcgcgag	cagggatcga	4620
tccaacccct	ccgctgctat	agtgcagtcg	gcttctgacg	ttcagtgcag	ccgtcttctg	4680
aaaacgacat	gtcgcacaag	tcctaagtta	cgcgacaggc	tgccgccctg	cccttttcct	4740
ggcgttttct	tgtcgcgtgt	tttagtcgca	taaagtagaa	tacttgcgac	tagaaccgga	4800
gacattacgc	catgaacaag	agcgccgccg	ctggcctgct	gggctatgcc	cgcgtcagca	4860
ccgacgacca	ggacttgacc	aaccaacggg	ccgaactgca	cgcggccggc	tgcaccaagc	4920
tgttttccga	gaagatcacc	ggcaccaggc	gcgaccgccc	ggagctggcc	aggatgcttg	4980

accacctacg	ccctggcgac	gttgtgacag	tgaccaggct	agaccgcctg	gcccgcagca	5040
cccgcgacct	actggacatt	gccgagcgca	tccaggaggc	cggcgcgggc	ctgcgtagcc	5100
tggcagagcc	gtgggccgac	accaccacgc	cggccggccg	catggtgttg	accgtgttcg	5160
ccggcattgc	cgagttcgag	cgttccctaa	tcatcgaccg	cacccggagc	gggcgcgagg	5220
ccgccaaggc	ccgaggcgtg	aagtttggcc	cccgccctac	cctcaccccg	gcacagatcg	5280
cgcacgcccg	cgagctgatc	gaccaggaag	gccgcaccgt	gaaagaggcg	gctgcactgc	5340
ttggcgtgca	tcgctcgacc	ctgtaccgcg	cacttgagcg	cagcgaggaa	gtgacgccca	5400
ccgaggccag	gcggcgcggt	gccttccgtg	aggacgcatt	gaccgaggcc	gacgccctgg	5460
cggccgccga	gaatgaacgc	caagaggaac	aagcatgaaa	ccgcaccagg	acggccagga	5520
cgaaccgttt	ttcattaccg	aagagatcga	ggcggagatg	atcgcggccg	ggtacgtgtt	5580
cgagccgccc	gcgcacgtct	caaccgtgcg	gctgcatgaa	atcctggccg	gtttgtctga	5640
tgccaagctg	geggeetgge	cggccagctt	ggccgctgaa	gaaaccgagc	gccgccgtct	5700
aaaaaggtga	tgtgtatttg	agtaaaacag	cttgcgtcat	gcggtcgctg	cgtatatgat	5760
gcgatgagta	aataaacaaa	tacgcaaggg	gaacgcatga	aggttatcgc	tgtacttaac	5820
cagaaaggcg	ggtcaggcaa	gacgaccatc	gcaacccatc	tagecegege	cctgcaactc	5880
gccggggccg	atgttctgtt	agtcgattcc	gatccccagg	gcagtgcccg	cgattgggcg	5940
gccgtgcggg	aagatcaacc	gctaaccgtt	gtcggcatcg	accgcccgac	gattgaccgc	6000
gacgtgaagg	ccatcggccg	gcgcgacttc	gtagtgatcg	acggagcgcc	ccaggcggcg	6060
gacttggctg	tgtccgcgat	caaggcagcc	gacttcgtgc	tgattccggt	gcagccaagc	6120
ccttacgaca	tatgggccac	cgccgacctg	gtggagctgg	ttaagcagcg	cattgaggtc	6180
acggatggaa	ggctacaagc	ggcctttgtc	gtgtcgcggg	cgatcaaagg	cacgegeate	6240
ggcggtgagg	ttgccgaggc	gctggccggg	tacgagctgc	ccattcttga	gtcccgtatc	6300
acgcagcgcg	tgagctaccc	aggcactgcc	geegeeggea	caaccgttct	tgaatcagaa	6360
cccgagggcg	acgctgcccg	cgaggtccag	gegetggeeg	ctgaaattaa	atcaaaactc	6420
atttgagtta	atgaggtaaa	gagaaaatga	gcaaaagcac	aaacacgcta	agtgccggcc	6480
gtccgagcgc	acgcagcagc	aaggctgcaa	cgttggccag	cctggcagac	acgecageca	6540
tgaagcgggt	caactttcag	ttgccggcgg	aggatcacac	caagctgaag	atgtacgcgg	6600
tacgccaagg	caagaccatt	accgagctgc	tatctgaata	catcgcgcag	ctaccagagt	6660
aaatgagcaa	atgaataaat	gagtagatga	attttagcgg	ctaaaggagg	cggcatggaa	6720
aatcaagaac	aaccaggcac	cgacgccgtg	gaatgcccca	tgtgtggagg	aacgggcggt	6780



tggccaggcg taagcggctg	ggttgtctgc	cggccctgca	atggcactgg	aacccccaag	6840
cccgaggaat cggcgtgacg	gtcgcaaacc	atccggcccg	gtacaaatcg	gcgcggcgct	6900
gggtgatgac ctggtggaga	agttgaaggc	cgcgcaggcc	gcccagcggc	aacgcatcga	6960
ggcagaagca cgccccggtg	aatcgtggca	agcggccgct	gatcgaatcc	gcaaagaatc	7020
ccggcaaccg ccggcagccg	gtgcgccgtc	gattaggaag	ccgcccaagg	gcgacgagca	7080
accagatttt ttcgttccga	tgctctatga	cgtgggcacc	cgcgatagtc	gcagcatcat	7140
ggacgtggcc gttttccgtc	tgtcgaagcg	tgaccgacga	gctggcgagg	tgatccgcta	7200
cgagcttcca gacgggcacg	tagaggtttc	cgcagggccg	gccggcatgg	ccagtgtgtg	7260
ggattacgac ctggtactga	tggcggtttc	ccatctaacc	gaatccatga	accgataccg	7320
ggaagggaag ggagacaagc	ccggccgcgt	gttccgtcca	cacgttgcgg	acgtactcaa	7380
gttctgccgg cgagccgatg	gcggaaagca	gaaagacgac	ctggtagaaa	cctgcattcg	7440
gttaaacacc acgcacgttg	ccatgcagcg	tacgaagaag	gccaagaacg	gccgcctggt	7500
gacggtatcc gagggtgaag	ccttgattag	ccgctacaag	atcgtaaaga	gcgaaaccgg	7560
gcggccggag tacatcgaga	togagotago	tgattggatg	taccgcgaga	tcacagaagg	7620
caagaacccg gacgtgctga	cggttcaccc	cgattacttt	ttgatcgatc	ccggcatcgg	7680
ccgttttctc taccgcctgg	cacgccgcgc	cgcaggcaag	gcagaagcca	gatggttgtt	7740
caagacgatc tacgaacgca	gtggcagcgc	cggagagttc	aagaagttct	gtttcaccgt	7800
gcgcaagctg atcgggtcaa	atgacctgcc	ggagtacgat	ttgaaggagg	aggcggggca	7860
ggctggcccg atcctagtca	tgcgctaccg	caacctgatc	gagggcgaag	catccgccgg	7920
ttcctaatgt acggagcaga	tgctagggca	aattgcccta	gcaggggaaa	aaggtcgaaa	7980
aggtctcttt cctgtggata	gcacgtacat	tgggaaccca	aagccgtaca	ttgggaaccg	8040
gaacccgtac attgggaacc	caaagccgta	cattgggaac	cggtcacaca	tgtaagtgac	8100
tgatataaaa gagaaaaaag	gcgatttttc	cgcctaaaac	tctttaaaac	ttattaaaac	8160
tcttaaaacc cgcctggcct	gtgcataact	gtctggccag	cgcacageeg	aagagctgca	8220
aaaagcgcct acccttcggt	cgctgcgctc	cctacgcccc	gccgcttcgc	gtcggcctat	8280
cgcggccgct ggccgctcaa	aaatggctgg	cctacggcca	ggcaatctac	cagggcgcgg	8340
acaageegeg eegtegeeae	tcgaccgccg	gcgcccacat	caaggcaccc	tgcctcgcgc	8400
gtttcggtga tgacggtgaa	aacctctgac	acatgcagct	cccggagacg	gtcacagctt	8460
gtctgtaagc ggatgccggg	agcagacaag	cccgtcaggg	cgcgtcagcg	ggtgttggcg	8520
ggtgtcgggg cgcagccatg	acccagtcac	gtagcgatag	cggagtgtat	actggcttaa	8580
ctatgeggea teagageaga	ttgtactgag	agtgcaccat	atgcggtgtg	aaataccgca	8640

CONFIDENTIAL

cagatgcgta	aggagaaaat	accgcatcag	gagatattaa	gcttcctcgc	tcactgactc	8700
gctgcgctcg	gtcgttcggc	tgcggcgagc	ggtatcagct	cactcaaagg	cggtaatacg	8760
gttatccaca	gaatcagggg	ataacgcagg	aaagaacatg	tgagcaaaag	gccagcaaaa	8820
ggccaggaac	cgtaaaaagg	ccgcgttgct	ggcgtttttc	cataggetee	gcccccctga	8880
cgagcatcac	aaaaatcgac	gctcaagtca	gaggtggcga	aacccgacag	gactataaag	8940
ataccaggcg	tttccccctg	gaageteeet	cgtgcgctct	cctgttccga	ccctgccgct	9000
taccggatac	ctgtccgcct	ttctcccttc	gggaagcgtg	gcgctttctc	atagctcacg	9060
ctgtaggtat	ctcagttcgg	tgtaggtcgt	tcgctccaag	ctgggctgtg	tgcacgaacc	9120
ccccgttcag	cccgaccgct	gcgccttatc	cggtaactat	cgtcttgagt	ccaacccggt	9180
aagacacgac	ttatcgccac	tggcagcagc	cactggtaac	aggattagca	gagcgaggta	9240
tgtaggcggt	gctacagagt	tcttgaagtg	gtggcctaac	tacggctaca	ctagaaggac	9300
agtatttggt	atctgcgctc	tgctgaagcc	agttaccttc	ggaaaaagag	ttggtagctc	9360
ttgatccggc	aaacaaacca	ccgctggtag	cggtggtttt	tttgtttgca	agcagcagat	9420
tacgcgcaga	aaaaaaggat	ctcaagaaga	tccggaaaac	gcaagcgcaa	agagaaagca	9480
ggtagcttgc	agtgggctta	catggcgata	gctagactgg	gcggttttat	ggacagcaag	9540
cgaaccggaa	ttgcc					9555

<210> 7 <211> 4182 <212> DNA

<213> Artificial: plasmid pRVA44

<400> 7 togogogttt oggtgatgac ggtgaaaacc totgacacat gcagotocog gagacggtca 60 120 cagcttgtct gtaagcggat gccgggagca gacaagcccg tcaggggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc 180 240 accatacctg caggcaattg gtacctacgt atgcatggcg cgccatatgc ccgggccctg 300 tacageggee gegtteetae geageaggte teateaagae gatetaeeeg agtaacaate tccaggagat caaatacctt cccaagaagg ttaaagatgc agtcaaaaga ttcaggacta 360 420 attgcatcaa gaacacagag aaagacatat ttctcaagat cagaagtact attccagtat ggacgattca aggcttgctt cataaaccaa ggcaagtaat agagattgga gtctctaaaa 480 540 aggtagttcc tactgaatct aaggccatge atggagtcta agattcaaat cgaggatcta acagaactcg ccgtgaagac tggcgaacag ttcatacaga gtcttttacg actcaatgac aagaagaaaa tottogtoaa catggtggag cacgacacto tggtotacto caaaaatgto 660

aaagatacag	tctcagaaga	ccaaagggct	attgagactt	ttcaacaaag	gataatttcg	720
ggaaacctcc	teggatteca	ttgcccagct	atctgtcact	tcatcgaaag	gacagtagaa	780
aaggaaggtg	gctcctacaa	atgccatcat	tgcgataaag	gaaaggctat	cattcaagat	840
gcctctgccg	acagtggtcc	caaagatgga	cccccaccca	cgaggagcat	cgtggaaaaa	900
gaagacgttc	caaccacgtc	ttcaaagcaa	gtggattgat	gtgacatctc	cactgacgta	960
agggatgacg	cacaatccca	ctatccttcg	caagaccctt	cctctatata	aggaagttca	1020
tttcatttgg	agaggacacg	ctgaaatcac	cagtctctct	ctataaatct	atctctctct	1080
ctataaccat	ggacccagaa	cgacgcccgg	ccgacatccg	ccgtgccacc	gaggcggaca	1140
tgccggcggt	ctgcaccatc	gtcaaccact	acatcgagac	aagcacggtc	aacttccgta	1200
ccgagccgca	ggaaccgcag	gagtggacgg	acgacctcgt	ccgtctgcgg	gagcgctatc	1260
cctggctcgt	cgccgaggtg	gacggcgagg	tcgccggcat	cgcctacgcg	ggcccctgga	1320
aggcacgcaa	cgcctacgac	tggacggccg	agtcgaccgt	gtacgtctcc	ccccgccacc	1380
agcggacggg	actgggctcc	acgctctaca	cccacctgct	gaagtccctg	gaggcacagg	1440
gcttcaagag	cgtggtcgct	gtcatcgggc	tgcccaacga	cccgagcgtg	cgcatgcacg	1500
aggcgctcgg	atatgccccc	cgcggcatgc	tgcgggcggc	cggcttcaag	cacgggaact	1560
ggcatgacgt	gggtttctgg	cagctggact	tcagcctgcc	ggtaccgccc	cgtccggtcc	1620
tgcccgtcac	cgagatctga	tctcacgcgt	ctaggatccg	aagcagatcg	ttcaaacatt	1680
tggcaataaa	gtttcttaag	attgaatcct	gttgccggtc	ttgcgatgat	tatcatataa	1740
tttctgttga	attacgttaa	gcatgtaata	attaacatgt	aatgcatgac	gttatttatg	1800
agatgggttt	ttatgattag	agtcccgcaa	ttatacattt	aatacgcgat	agaaaacaaa	1860
atatagcgcg	caaactagga	taaattatcg	cgcgcggtgt	catctatgtt	actagategg	1920
gaagatcctc	tagagcgatc	gcaagcttgg	cgtaatcatg	gtcatagctg	tttcctgtgt	1980
gaaattgtta	tccgctcaca	attccacaca	acatacgagc	cggaagcata	aagtgtaaag	2040
cctggggtgc	ctaatgagtg	agctaactca	cattaattgc	gttgcgctca	ctgcccgctt	2100
tccagtcggg	aaacctgtcg	tgccagctgc	attaatgaat	cggccaacgc	gcggggagag	2160
gcggtttgcg	tattgggcgc	tcttccgctt	cctcgctcac	tgactcgctg	cgctcggtcg	2220
ttcggctgcg	gcgagcggta	tcagctcact	caaaggcggt	aatacggtta	tccacagaat	2280
caggggataa	cgcaggaaag	aacatgtgag	caaaaggcca	gcaaaaggcc	aggaaccgta	2340
aaaaggccgc	gttgctggcg	tttttccata	ggctccgccc	ccctgacgag	catcacaaaa	2400
atcgacgctc	aagtcagagg	tggcgaaacc	cgacaggact	ataaagatac	caggcgtttc	2460

cccctggaag	ctccctcgtg	cgctctcctg	ttccgaccct	gccgcttacc	ggatacctgt	2520
cegeetttet	cccttcggga	agcgtggcgc	tttctcaaag	ctcacgctgt	aggtatctca	2580
gttcggtgta	ggtcgttcgc	tccaagctgg	gctgtgtgca	cgaacccccc	gttcagcccg	2640
accgctgcgc	cttatccggt	aactatcgtc	ttgagtccaa	cccggtaaga	cacgacttat	2700
cgccactggc	agcagccact	ggtaacagga	ttagcagagc	gaggtatgta	ggcggtgcta	2760
cagagttctt	gaagtggtgg	cctaactacg	gctacactag	aagaacagta	tttggtatct	2820
gcgctctgct	gaagccagtt	accttcggaa	aaagagttgg	tagctcttga	tccggcaaac	2880
aaaccaccgc	tggtagcggt	ggtttttttg	tttgcaagca	gcagattacg	cgcagaaaaa	2940
aaggatctca	agaagatcct	ttgatctttt	ctacggggtc	tgacgctcag	tggaacgaaa	3000
actcacgtta	agggattttg	gtcatgagat	tatcaaaaag	gatcttcacc	tagatccttt	3060
taaattaaaa	atgaagtttt	aaatcaatct	aaagtatata	tgagtaaact	tggtctgaca	3120
gttaccaatg	cttaatcagt	gaggcaccta	tctcagcgat	ctgtctattt	cgttcatcca	3180
tagttgcctg	actccccgtc	gtgtagataa	ctacgatacg	ggagggctta	ccatctggcc	3240
ccagtgctgc	aatgataccg	cgagacccac	gctcaccggc	tccagattta	tcagcaataa	3300
accagccagc	cggaagggcc	gagcgcagaa	gtggtcctgc	aactttatcc	gcctccatcc	3360
agtctattaa	ttgttgccgg	gaagctagag	taagtagttc	gccagttaat	agtttgcgca	3420
acgttgttgc	cattgctaca	ggcatcgtgg	tgtcacgctc	gtcgtttggt	atggcttcat	3480
tcagctccgg	ttcccaacga	tcaaggcgag	ttacatgatc	ccccatgttg	tgcaaaaaag	3540
cggttagctc	cttcggtcct	ccgatcgttg	tcagaagtaa	gttggccgca	gtgttatcac	3600
tcatggttat	ggcagcactg	cataattctc	ttactgtcat	gccatccgta	agatgctttt	3660
ctgtgactgg	tgagtactca	accaagtcat	tctgagaata	gtgtatgcgg	cgaccgagtt	3720
getettgeee	ggcgtcaata	cgggataata	ccgcgccaca	tagcagaact	ttaaaagtgc	3780
tcatcattgg	aaaacgttct	tcggggcgaa	aactctcaag	gatcttaccg	ctgttgagat	3840
ccagttcgat	gtaacccact	cgtgcaccca	actgatcttc	agcatctttt	actttcacca	3900
gcgtttctgg	gtgagcaaaa	acaggaaggc	aaaatgccgc	aaaaaaggga	ataagggcga	3960
cacggaaatg	ttgaatactc	atactcttcc	tttttcaata	ttattgaagc	atttatcagg	4020
gttattgtct	catgagcgga	tacatatttg	aatgtattta	gaaaaataaa	caaatagggg	4080
ttccgcgcac	atttccccga	aaagtgccac	ctgacgtcta	agaaaccatt	attatcatga	4140
cattaaccta	taaaaatagg	cgtatcacga	ggccctttcg	tc		4182

16

22

21

```
<210> 8
<211> 16
<212> DNA
<213> Artificial: primer MDB327
<220>
<221> misc_feature
<223> "n"= a, c, g or t
<220>
<221> misc_feature
<223> "s"= c or g
<220>
<221> misc_feature
<223> "w"= a or t
<400> 8
ntgaggwtcn wgtsat
 <210> 9
 <211> 22
 <212> DNA
 <213> Artificial: primer MLD015
 <400> 9
 tggttcctag cgtgagccag tg
 <210> 10
 <211> 21
 <212> DNA
 <213> Artificial: primer MLD016
 <400> 10
 agctgctgct cttgcctctg t
 <210> 11
  <211> 16
  <212> DNA
  <213> Artificial: primer MDB612
  <220>
  <221> misc_feature
  <222> (1)..(16)
  <223> "n"= a, c, g, or t
  <220>
  <221> misc feature
  <222> (1)..(16)
  <223> "s"= c, g
```



<220>		
	misc_feature	
	(1)(16)	
<223>	"w"= a or t	
<400>	11	
	swga nawgat	16
ngegee	swya nawyat	
<210>	12	
<211>		
<212>		
	Artificial: MDB053	
·		
<400>	12	
	gtgg gtttctggca gc	22
<210>	13	
<211>	21	
<212>	DNA	
	Artificial: primer MDB356	
<400>	13	
aatcct	gttg ccggtcttgc g	21
<210>	14	
<211>	22	
<212>	DNA	
<213>	Artificial: primer DPA017	
<400>	14	
gattag	agtc ccgcaattat ac	22
<210>		
<211>		
<212>		
<213>	Artificial: primer MLD019	
<400>		0.0
caagat	gcga gcaactatgt	20
1010		
<210>		
<211>		
<212>		
<213>	Artificial: sequence comprising target site deletion	
<400>	16	
	acca caattttgag cttttcattt tctattttga ggataatagt ttattccctc	60
rockgg.	acca caattitigay colocoatti totattitiga gyataatayt ttattootto	00
aaggaa	ctat tcaactgagc ttaatatctc aatttttttt aacatatgac tataagtatc	120
aayyaa	controlled and controlled and controlled and and and and and and and and and an	•
ctccaa	atat ttaaaaagaa tatcaccatt atccgaatct tctttaaaat ctgttagaac	180
acggtt	tgga atagtggtag	200

DENTAL

400			-0.XC
	<210>	17	
	<211>		
	<212>	DNA CHTO1	
	<213>	Artificial: primer GHI01	
			0.1
	<400>		21
	aaccta	ggct gctgaaggag c	
	<210>	18	
	<211>		
	Z212>	DNA	
	Z2127	Artificial: primer GHI02	
	\Z13/		
	<400>	18	21
	caacto	cctcc agtcatctcc g	
	Caacce	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	